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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/689,260	10/20/2003	Shinichi Imade	SAS2-PT061	2883
3624	7590	02/10/2005	EXAMINER	
VOLPE AND KOENIG, P.C. UNITED PLAZA, SUITE 1600 30 SOUTH 17TH STREET PHILADELPHIA, PA 19103			BLACKMAN, ROCHELLE ANN J	
			ART UNIT	PAPER NUMBER
			2851	

DATE MAILED: 02/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/689,260

Applicant(s)

IMADE, SHINICHI

Examiner

Rochelle Blackman

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 October 2003.
- 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-77 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 1-77 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Election/Restrictions

This application contains claims directed to the following patentably distinct species of the claimed invention:

Species 1(A) – embodiment of FIGS. 1-3.

Species 1(B) – embodiment of FIGS. 2-4, with a radiating fan serving as a radiating exhaust member for exhausting air contacting with the radiating section.

Species 1(C) – embodiment of FIGS. 2, 3, and 5, with a shielding cover for preventing diffusing light by the LED, which is not incident to the light guiding rod member for leaking out of the illumination apparatus.

Species 1(D) – embodiment of FIGS. 1, 6 and 7, with an image projection apparatus having a superposition lens, display device, and projection lens, in addition to the illumination apparatus having the structure shown in FIG. 1.

Species 1(E) – embodiment of FIGS. 4, 6, and 7, with an image projection apparatus having a superposition lens, display device, and projection lens, in addition to the illumination apparatus having the structure shown in FIG. 4.

Species 1(F) – embodiment of FIGS. 5-7, with an image projection apparatus having a superposition lens, display device, and projection lens, in addition to the illumination apparatus having the structure shown in FIG. 5.

Species 2(A) – embodiment of FIGS. 9 and 13, with model A.

Species 2(B) – embodiment of FIGS. 10 and 13, with model B.

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Species 2(C) – embodiment of FIGS. 11 and 13, with model C.

Species 2(D) – embodiment of FIGS. 12 and 13, with model D.

Species 3(A) – embodiment of FIG. 16, with a width d_y of the parallel rod of the light guiding rod member structured so as to establish the relationship which is $2p \leq d_y < 3p$, such that the size of the incident surface S_i is made to be a size which can fetch two of the LEDs, and two of the adjacent LEDs are lit, different from that of FIG. 14, which represents the parallel rod and LEDs of FIGS. 1-8 and 9-13 of species 1 and 2, with the differences shown in FIG. 15.

Species 3(B) - embodiment of FIG. 17, with the width d_y of the parallel rod of the light guiding rod structured so as to establish the relationship which is $3p \leq d_y$, the size of the incident surface S_i may be structured so as to be a size which can fetch three of the LEDs, and two of the adjacent LEDs may be lit, different from that of FIG. 14, which represents the parallel rod and LEDs of FIGS. 1-8 and 9-13 of species 1 and 2, with the differences shown in FIG. 15.

Species 3(C) – embodiment of FIGS. 18 and 19, with the three-dimensional phase of the LED, and the take-in opening of the parallel rod is shifted by a half of a pitch.

Species 3(D) – embodiment of FIGS. 19 and 20, with the number of the LEDs arranged on the illuminate substrate made to be an even number.

Species 4 – embodiment of FIG. 22, with an end surface of the parallel rod formed in a curved surface, different from that of the parallel rod in FIG. 21, which represents the parallel rod of FIGS. 1-8 and 9-20 of species 1-3.

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Species 5 – embodiment of FIG. 23.

Species 6(A) – embodiment of FIG. 24-26.

Species 6(B) – embodiment of FIG. 27, with reflecting prism and tapered rod separated.

Species 6(C) – embodiment of FIG. 28, with illumination apparatus applied to an image projection system.

Species 7 – embodiment of FIG. 29.

Species 8(A) – embodiment of FIG. 30.

Species 8(B) – embodiment of FIGS. 31A and 31B, with LED mounted on a disc.

Species 8(C) – embodiment of FIG. 32, with plurality of LEDs serving as illuminants arranged on the circumference on the LED holding the disc.

Species 8(D) – embodiment of FIGS. 33 and 34, with lighting guiding unit rotating only, different from that of FIG. 29 of species 7.

Species 9(A) – embodiment of FIG. 35.

Species 9(B) – embodiment of FIG. 36, with tapered rod fixedly disposed in a direction in which the taper thereof gradually becomes smaller from the end portion at the LED 14 side toward the end portion at the parallel rod side of the rotating light guiding unit.

Species 9(C) – embodiment of FIG. 37, with plurality of lenses in place of the tapered rods.

Species 10 – embodiment of FIGS. 38-40.

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rochelle Blackman whose telephone number is (571) 272-2113. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RB


JUDY NGUYEN
SUPERVISORY PATENT EXAMINER